

WHAT IS CLAIMED IS:

1. A vacuum cleaner current-carrying hose connection system comprising:
 - a female connection end on a first vacuum cleaner current-carrying hose wherein the female connection has at least two female receptor holes; and
 - a male connection end on a second vacuum cleaner current-carrying hose, wherein the male connection has at least two male receptor plugs for transmitting current and configured for inserting into
 - 10 the female connection end of the first vacuum cleaner current-carrying hose.
2. A vacuum cleaner current-carrying hose connection system as in claim 1, wherein the female connection end has a connection mechanism
 - 15 configured to be received within a corresponding connection receptor fashioned in the male connection end.
3. A vacuum cleaner current-carrying hose connection system as in claim 1, wherein the male connection end has a connection mechanism
 - 20 configured to be received within a corresponding connection receptor fashioned in the female connection end.
4. A vacuum cleaner hose connection system comprising:
 - a male connection end having at least two male receptor plugs for
 - 25 transmitting current;
 - a female connection end having at least two female receptor holes for receiving the male receptor plugs;
 - the male and female connection ends being rotatably movable, about the longitudinal axis of at least one of the female connection end
 - 30 and the male connection end, between an unengaged position and an engaged position.

5. A vacuum cleaner hose connection system as in claim 4, the male connection end having a guide button for receipt in a guide button receiving channel fashioned in the female connection end.
- 5 6. A vacuum cleaner hose connection system as in claim 4, the female connection end having a guide button for receipt in a guide button receiving channel fashioned in the male connection end.
- 10 7. A vacuum cleaner hose connection system as in claim 4 wherein a portion of the male connection end having the male receptor plugs is freely rotatable, with respect to the current-carrying hose, about a longitudinal axis of the male connection end.
- 15 8. A vacuum cleaner hose connection system as in claim 4 wherein a portion of the female connection end having the female receptor holes is freely rotatable, with respect to the current-carrying hose, about a longitudinal axis of the female connection end.
- 20 9. A vacuum cleaner hose connection system as in claim 4 wherein the male connection end further comprises a plurality of conducting loops spaced apart by a plurality of insulating loops.
- 25 10. A vacuum cleaner hose connection system as in claim 4 wherein the female connection end further comprises a plurality of conducting loops spaced apart by a plurality of insulating loops.
- 30 11. A vacuum cleaner hose connection system as in claim 4 wherein the male connection end has a plurality of male receptor plugs at a plurality of locations along a front leading lip of the male connection end.

12. A vacuum cleaner hose connection system as in claim 11 wherein the female connection end has a plurality of female receptor holes at a plurality of locations along a front leading lip of the female connection end.

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13. A vacuum cleaner current-carrying hose comprising the male connection end and the female connection end claimed in claim 4.

10 14. A vacuum cleaner handle part comprising a male connection end configured to be rotationally moveable between an unengaged position and a position engaged with a female connection end of a vacuum cleaner current-carrying hose.

15 15. A female connection end for a vacuum cleaner current-carrying hose comprising:

at least two female receptor holes for receiving male receptor plugs carrying current; and

means for engaging with a male connection end via rotation about a longitudinal axis of the female connection end.

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16. A male connection end for a vacuum cleaner current-carrying hose comprising:

at least two male receptor plugs for transmitting current to female receptor holes; and

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means for engaging with a female connection end via rotation about a longitudinal axis of the male connection end.

30 17. A method for operating a connection system between a first vacuum cleaner current-carrying hose and one of a second vacuum cleaner current-carrying hose, a handle part, a vacuum cleaner body and a wall outlet, comprising:

- rotating a male connection end, with respect to a female connection end about the longitudinal axis of at least one of the female connection end and the male connection end, to engage a current-carrying male plug of the male connection end with a current-carrying receptor of the female connection end,
- 5 wherein one of the male connection end and the female connection end is coupled to the first current-carrying vacuum cleaner hose and
- wherein the other of the male connection end and the female
- 10 connection end is coupled to one of the second vacuum cleaner current-carrying hose, the handle part, the vacuum cleaner body and the wall outlet.
18. A method as in claim 17 further comprising rotating the male
- 15 connection end, with respect to the female connection end about the longitudinal axis of at least one of the female connection end and the male connection end, to disengage the current-carrying male plug of the male connection end from the current-carrying receptor of the female connection end.